

Petr Stepanov

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Ph.D. graduate in physics with a focus in GUI desktop software development for data analyses. More than 5 years in website and web application development. Strong user interface (UI) and user experience (UX) design skills.

Summary of Qualifications

- Application of the Machine Learning (AI) for classification of the experimental data.
- Strong Object Oriented Programming (OOP) skills. Debugging and bug fixing code in modern IDEs.
- Delivering production ready software written in compiled languages (C++, CMake, GNU Makefiles).
- BASH scripting on High-Performance Computing (HPC) Linux environment.
- 5+ years of user interface programming (UI) with Model-View patterns (MVC, MVP). State-oriented programming.
- 3+ years in building responsive web apps with modular JavaScript, HTML, and CSS.
- 6+ years of UI and UX wireframing and interactive prototyping for web and mobile applications (Figma, Sketch).

Work Experience

C++ Software Developer

[Thomas Jefferson National Laboratory \(JLab\)](#), Newport News, VA.

Jul 2020 - Jan 2023

Software Developer • Postdoctoral Researcher

[Catholic University of America \(CUA\)](#), Washington, DC.

Jul 2020 - Jan 2023

Software Developer • Research Assistant

[Bowling Green State University \(BGSU\)](#), Bowling Green, OH.

Aug 2014 - May 2020

Frontend Developer, UI/UX Designer • Freelance

Sep 2012 - May 2020

Education

Bowling Green State University (BGSU) • OH, United States

Aug 2014 - May 2020

Ph.D. in Photochemical Sciences • GPA 3.423. [Dissertation](#): Novel developments in positron spectroscopy (PAS).

British Higher School of Art and Design (BHSAD) • Moscow, Russia

Dec 2011 - Feb 2012

Three-month intensive in Graphical Design and Visual Communications (illustration, lettering, brand identity).

National Research Nuclear University (MEPhI) • Moscow, Russia

Sep 2004 - Feb 2011

B.S. and M.S. in Solid State Physics. Thesis: application of PAS for defect concentration studies in bulk materials.

Professional Networks

- Find examples of my code [on GitHub](#) (50+ repositories).
- Discover my professional contacts [on LinkedIn](#) (200+ connections).
- Check out my UI and UX design portfolio [on Dribbble](#) (50+ shots).

Relevant Interests

- Hosting an open-source project for keyboard remapping on Linux [300+ stars on GitHub](#).
- Developed a [RAMDisk plugin](#) for Linux that provides 50% increase in source code indexing time.
- Created two shared libraries for the ROOT data analysis framework [\[1, 2\]](#).
- [Right to repair](#) follower. Collecting and repairing old phones and laptops.
- Worked as mechanic and fabricator at a non-profit automotive shop (part-time, Oregon City, OR).